Listing of the Claims:

(original) An alloy comprising, in weight percent based on total alloy weight: at least 20 cobalt;
 32.7 to 37.3 nickel;
 18.75 to 21.25 chromium;
 8.85 to 10.65 molybdenum; and less than 30 ppm nitrogen.

- 2. (original) The alloy of claim 1, comprising less than 20 ppm nitrogen.
- 3. (original) The alloy of claim 1, further comprising less than 0.7 weight percent titanium.
- 4. (original) The alloy of claim 1, further comprising less than 0.03 weight percent titanium.
- (original) The alloy of claim 1, further comprising: no greater than 0.035 carbon;
 no greater than 0.18 manganese;
 no greater than 0.17 silicon;
 no greater than 0.020 phosphorus;
 no greater than 0.015 sulfur;
 no greater than 1.05 iron; and
 no greater than 0.020 boron.
- 6. (original) The alloy of claim 1, comprising: at least 20 cobalt
 33.0 to 37.0 nickel;
 19.0 to 21.0 chromium;

9.0 to 10.5 molybdenum; less than 30 ppm nitrogen.

- 7. (original) The alloy of claim 6, further comprising:
 no greater than 0.025 carbon;
 no greater than 0.15 manganese;
 no greater than 0.15 silicon;
 no greater than 0.015 phosphorus;
 no greater than 0.010 sulfur;
 no greater than 1.0 iron; and
 no greater than 0.015 boron.
- 8. (original) The alloy of claim 7, comprising less than 20 ppm nitrogen.
- 9. (original) The alloy of claim 7, further comprising less than 0.7 weight percent titanium.
- 10. (original) The alloy of claim 7, further comprising less than 0.03 weight percent titanium.
- 11. (original) The alloy of any of claims 1 and 6, wherein the alloy is substantially free of titanium nitride and mixed metal carbonitride inclusions.
- 12. (original) The alloy of claim 1, further comprising 0.05 to 0.15 weight percent aluminum.
- 13. (original) The alloy of claim 1, further comprising 5 to 20 ppm calcium.
- 14. (original) The alloy of claim 1, further comprising 5 to 50 ppm weight percent magnesium.

- 15. (original) The alloy of claim 1, further comprising 5 to 50 ppm cerium.
- 16. (original) The alloy of claim 1, wherein the alloy does not exhibit significant oxygen embrittlement at grain boundaries.
- 17. (original) The alloy of claim 1, wherein the alloy is substantially free of titanium.
- 18. (original) The alloy of claim 1, wherein the alloy is substantially free of nitrogen.
- 19. (original) The alloy of claim 1, wherein the alloy has an endurance limit greater than 100 ksi.
- 20. (original) The alloy of claim 1, wherein the alloy qualifies for use in surgical implant applications under ASTM standard specification F 562.
- 21. (currently amended) An alloy comprising, in weight percent based on total alloy weight:

at least 20 cobalt;

33.0 to 37.0 nickel;

19.0 to 21.0 chromium;

9.0 to 10.5 molybdenum;

at least one of at least 0.05 weight percent aluminum, at least 5 ppm calcium, at least 5 ppm magnesium, and at least 5 ppm cerium;

no greater than 0.025 carbon;

no greater than 0.15 manganese;

no greater than 0.15 silicon;

no greater than 0.015 phosphorus;

no greater than 1.0 titanium;

no greater than 0.010 sulfur;

no greater than 1.0 iron; and

no greater than 0.015 boron-;

wherein the alloy is substantially free of titanium nitride and mixed metal carbonitride inclusions.

- 22. (original) The alloy of claim 21, comprising less than 30 ppm nitrogen.
- 23. (original) The alloy of claim 21, comprising less than 20 ppm nitrogen.
- 24. (original) The alloy of claim 21, comprising less than 0.7 weight percent titanium.
- 25. (original) The alloy of claim 21, comprising less than 0.03 weight percent titanium.
- 26. (original) The alloy of claim 21, further comprising 0.05 to 0.15 weight percent aluminum.
- 27. (original) The alloy of claim 21, further comprising 5 to 20 ppm calcium.
- 28. (original) The alloy of claim 21, further comprising 5 to 50 ppm weight percent magnesium.
- 29. (original) The alloy of claim 21, further comprising 5 to 50 ppm cerium.
- 30. (original) The alloy of claim 21, wherein the alloy does not exhibit significant oxygen embrittlement at grain boundaries.
- 31. (original) The alloy of claim 21, wherein the alloy has an endurance limit greater than 100 ksi.

- 31 (second). (cancelled)
- 32. (currently amended) An article of manufacture comprising the alloy of any of claims 1 through 31 and 50 through 52.
- 33. (original) The article of manufacture of claim 32, wherein the article of manufacture is selected from a bar, a wire, a tube, a surgical implant device, a component for a surgical implant device, an implantable defibrillator, a component for an implantable defibrillator, an implantable pacemaker, a component for an implantable pacemaker, a pacing lead, and a cardiac stent.
- 34. (original) The article of manufacture of claim 32, wherein the article of manufacture is one of a bar and a wire, and qualifies for use in surgical implant applications under ASTM standard specification F 562.
- 35. (withdrawn) A method of making an alloy, the method comprising: preparing a VAR ingot having a composition including at least 20 weight percent cobalt,
 33.0 to 37.0 weight percent nickel,
 19.0 to 21.0 weight percent chromium, and
 9.0 to 10.5 weight percent molybdenum; and less than 30 ppm nitrogen.
- 36. (withdrawn) The method of claim 35, wherein the ingot is substantially free of titanium nitride and mixed metal carbonitride inclusions.
- 37. (withdrawn) The method of claim 35, wherein the ingot comprises less than 20 ppm nitrogen.

- 38. (withdrawn) The method of claim 35, wherein the ingot comprises less than 0.7 weight percent titanium.
- 39. (withdrawn) The method of claim 35, wherein the ingot comprises less than 0.03 weight percent titanium.
- 40. (withdrawn) The method of claim 35, wherein the ingot further comprises 0.05 to 0.15 weight percent aluminum.
- 41. (withdrawn) The method of claim 35, wherein the ingot further comprises 5 to 20 ppm calcium.
- 42. (withdrawn) The method of claim 35, wherein the ingot further comprises 5 to 50 ppm weight percent magnesium.
- 43. (withdrawn) The method of claim 35, wherein the ingot further comprises 5 to 50 ppm cerium.
- 44. (withdrawn) The method of claim 35, wherein the ingot further includes no greater than 0.025 carbon; no greater than 0.15 manganese; no greater than 0.15 silicon; no greater than 0.015 phosphorus; no greater than 0.010 sulfur; no greater than 1.0 iron; and no greater than 0.015 boron.
- 45. (withdrawn) The method of claim 35, wherein the ingot is produced by a sequence including VIM.

- 46. (withdrawn) The method of claim 35, further comprising: processing the ingot into one of a bar, a wire, and a tube.
- 47. (withdrawn) The method of claim 46, wherein the bar, wire, or tube has an endurance limit greater than 100 ksi.
- 48. (withdrawn) The method of claim 35, further comprising:

 processing the ingot into one of a bar and a wire, wherein the bar or wire
 qualifies for use in surgical implant applications under ASTM standard specification
 F 562.
- 49. (withdrawn) The method of claim 48, wherein the bar or wire is further processed into one of a surgical implant device, a component for a surgical implant device, a component for an implantable defibrillator, a component for an implantable pacemaker, a pacing lead, and a cardiac stent. (Cancelled)
- 50. (new) The alloy of claim 21, wherein the alloy qualifies for use in surgical implant applications under ASTM standard specification F 562.
- 51. (new) An alloy comprising, in weight percent based on total alloy weight: at least 20 cobalt;

32.7 to 37.3 nickel;

18.75 to 21.25 chromium;

8.85 to 10.65 molybdenum;

at least one of at least 0.05 weight percent aluminum, at least 5 ppm calcium, at least 5 ppm magnesium, and at least 5 ppm cerium; and less than 30 ppm nitrogen.

52. (new) The alloy of claim 51, further comprising:
no greater than 0.035 carbon;
no greater than 0.18 manganese;
no greater than 0.17 silicon;
no greater than 0.020 phosphorus;
no greater than 0.015 sulfur;
no greater than 1.05 iron; and
no greater than 0.020 boron.